1.Installation Steps:

1>.Step 1: Install 10pcs 1Kohm Metal film resistor at R1-R7,R30-R32.

2>.Step 2: Install 9pcs 10Kohm Metal film resistor at R8-R15,R27.

3>.Step 3: Install 2pcs 30pF Ceramic capacitor at C1-C2. 1pcs 12MHz Crystal oscillator at Y1 and 1pcs 47uF 16V Electrolytic capacitor at E1.Pay attention to the positive and negative poles of electrolytic capacitors and the longer pin is positive pole.

4>.Step 4: Install 7pcs 3mm white LED at D1-D7 and 3pcs 3mm red LED at H/M/L.Pay attention to the positive and negative poles of LED and the longer pin is positive pole.

5>.Step 5: Install 1pcs S8550 TO-92 Transistor at Q1 and 1pcs DIP-40 IC socket at U1 and Pay attention to the installation direction.

6>.Step 6: Put a suitable length of heat shrinkable tube on the photosensitive sensor.

7>.Step 7: Install 7pcs photosensitive sensor at R17-R25.

8>.Step 8: Install 2pcs black button and 1pcs white 2P socket and 1pcs DC005 power supply socket and 1pcs 4Pin Male pin.

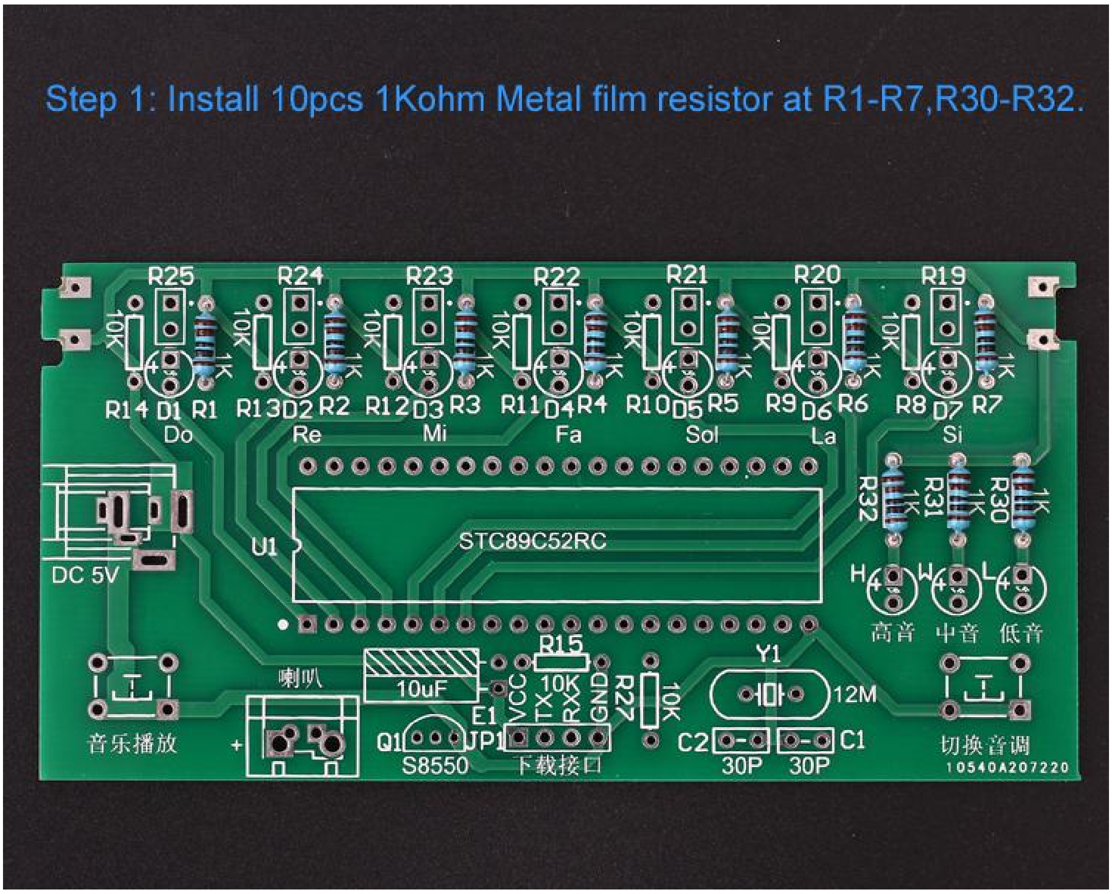
9>.Step 9: Install laser head.Pay attention to the positive and negative poles.

10>.Step 10: Install 7pcs laser head.It is recommended to fix the laser head with glue.

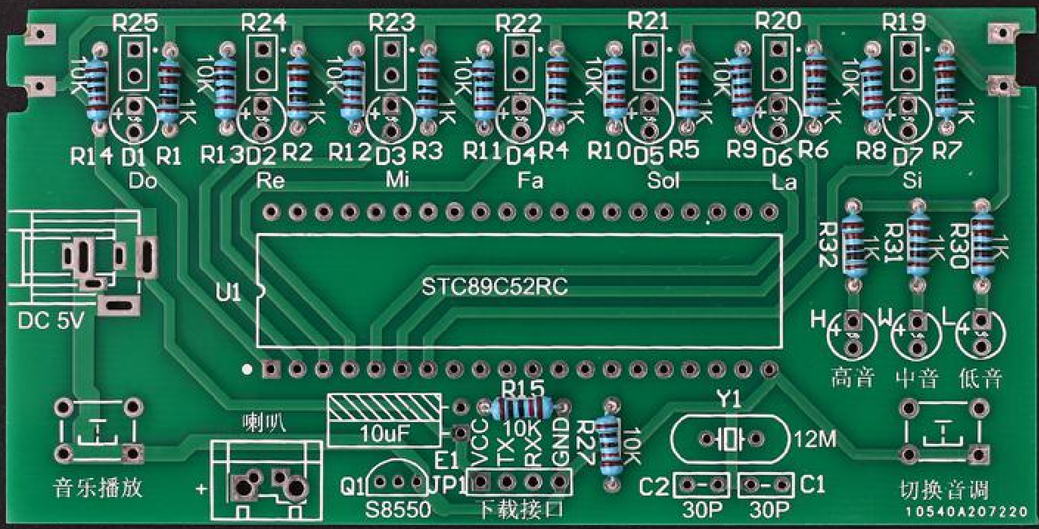
11>.Step 11: Mounting brackets.

12>.Step 12: Connect speaker and IC.Pay attention to the installation direction.

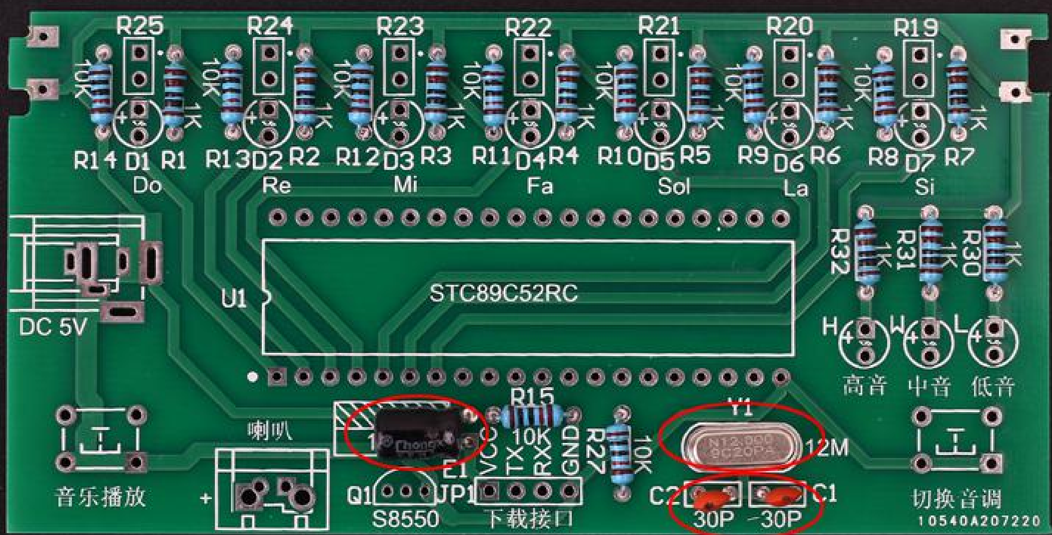
2.Install shown steps:

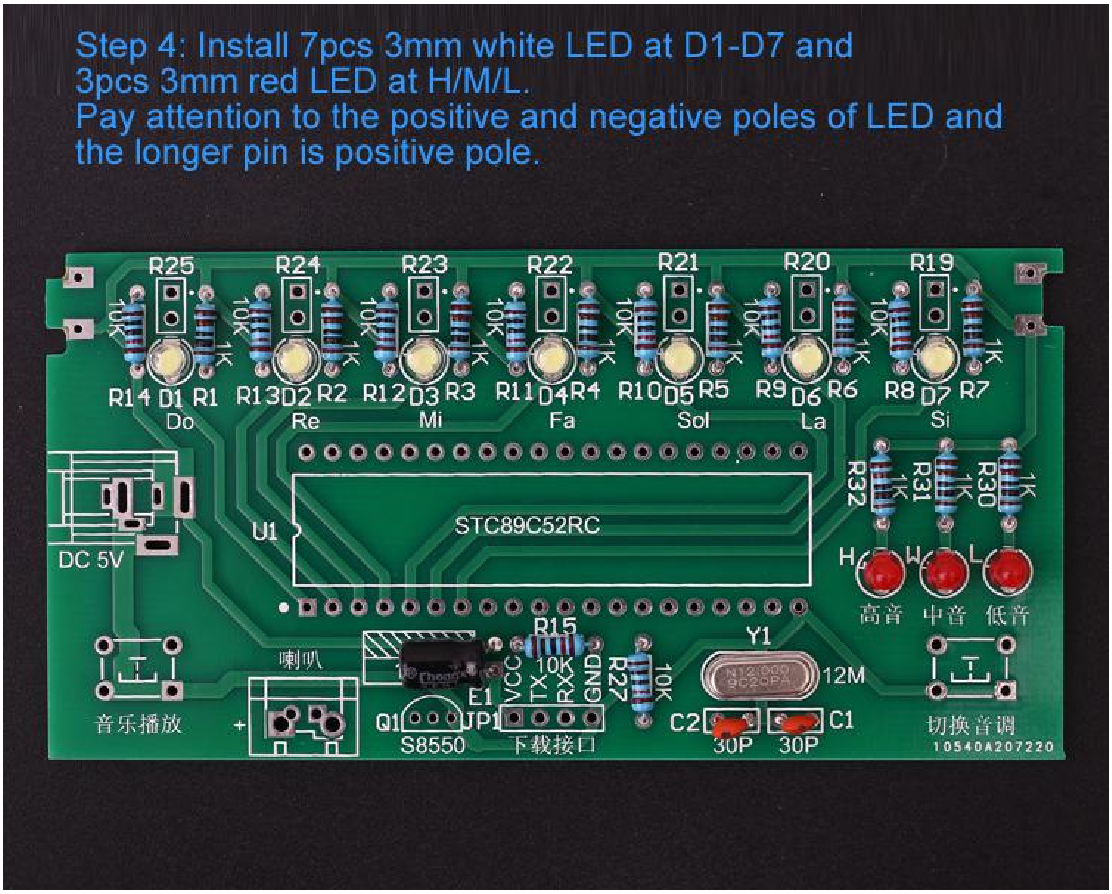


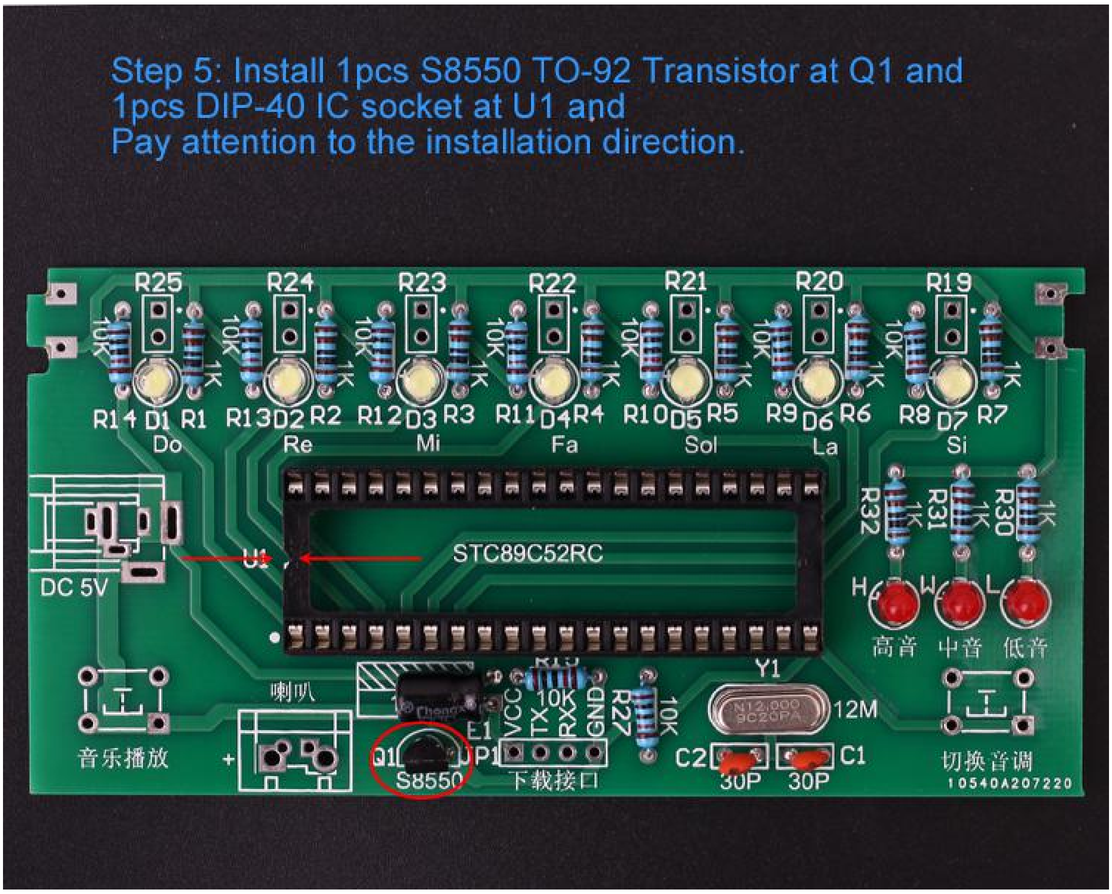
Step 2: Install 9pcs 10Kohm Metal film resistor at R8-R15,R27.



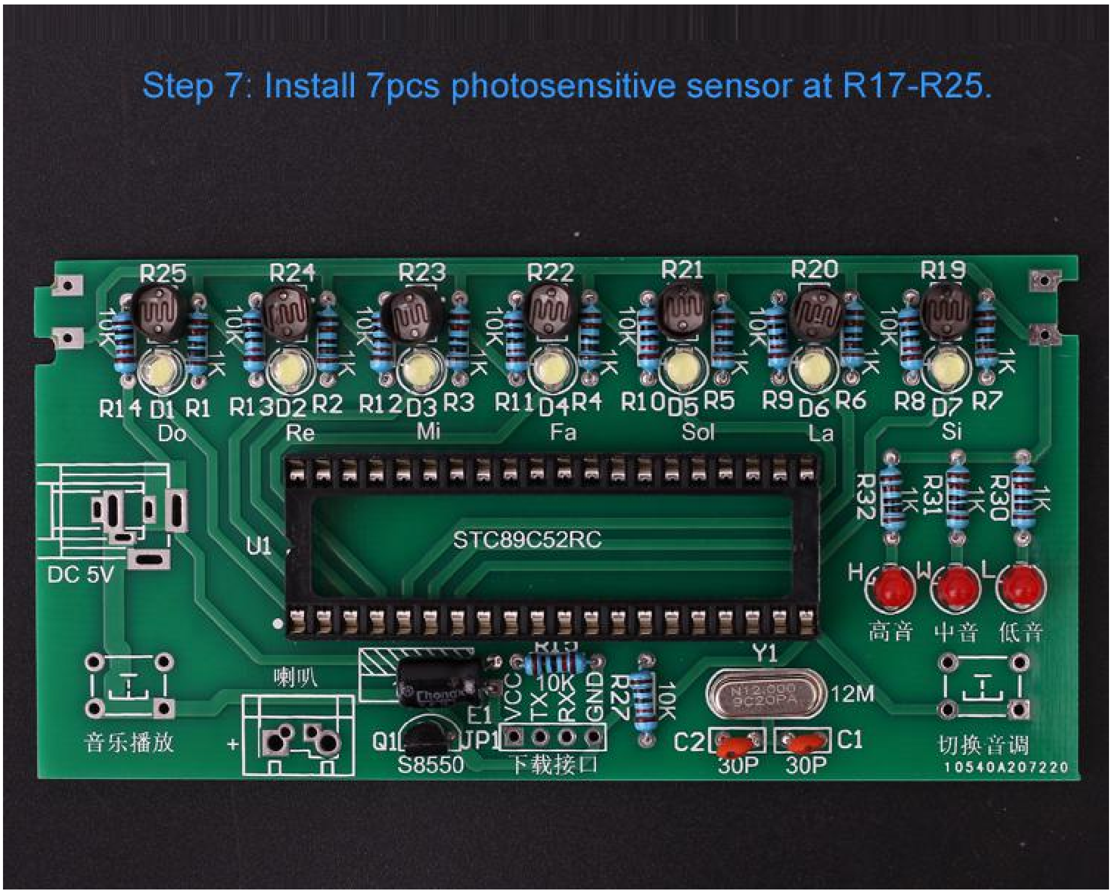
Step 3: Install 2pcs 30pF Ceramic capacitor at C1-C2.
1pcs 12MHz Crystal oscillator at Y1 and
1pcs 47uF 16V Electrolytic capacitor at E1.
Pay attention to the positive and negative poles of electrolytic capacitors and the longer pin is positive pole.



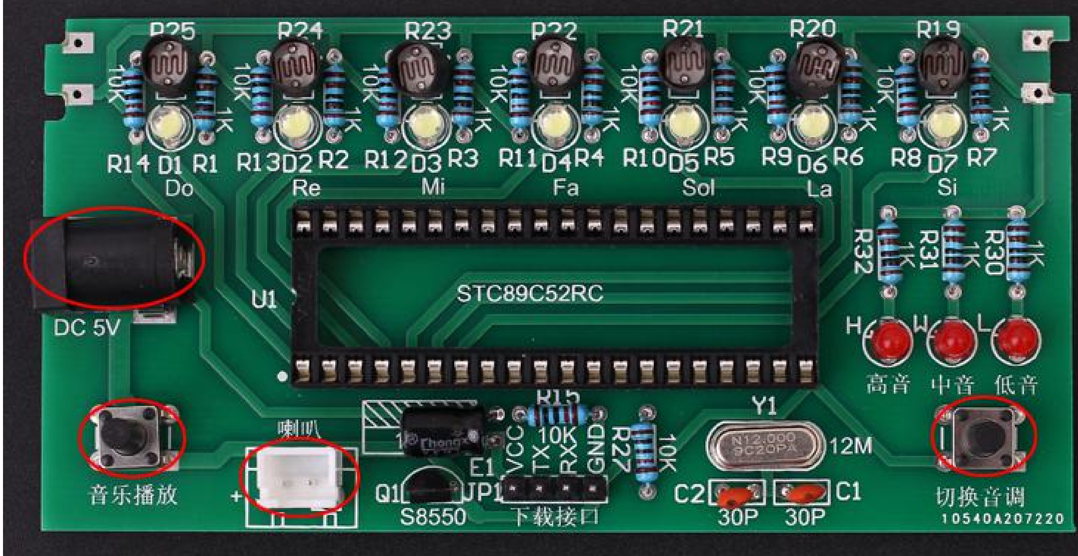

Step 4: Install 7pcs 3mm white LED at D1-D7 and
3pcs 3mm red LED at H/M/L.
Pay attention to the positive and negative poles of LED and
the longer pin is positive pole.
R25 R24 R23 R22 R21 R20 R19
R14 D1 R1 R13 D2 R2 R12 D3 R3 R11 D4 R4 R10 D5 R5 R9 D6 R6 R8 D7 R7
Do Re Mi Fa Sol La Si
U1
STC89C52RC
DC 5V
R32 R31 R30
高音 中音 低音
R15
Y1
12M
喇叭
音乐播放
Q1 S8550
E1 JP1
VCC TX RX GND
R27
C2 C1
30P 30P
下载接口
切换音调
10540A207220


Step 5: Install 1pcs S8550 TO-92 Transistor at Q1 and
1pcs DIP-40 IC socket at U1 and
Pay attention to the installation direction.
R25 R24 R23 R22 R21 R20 R19
R14 D1 R1 R13 D2 R2 R12 D3 R3 R11 D4 R4 R10 D5 R5 R9 D6 R6 R8 D7 R7
Do Re Mi Fa Sol La Si
U1
STC89C52RC
DC 5V
R32 R31 R30
高音 中音 低音
Y1
12M
喇叭
音乐播放
S8550
E1 JP1
VCC TX RX GND
R27
C2 C1
30P 30P
下载接口
切换音调
10540A207220

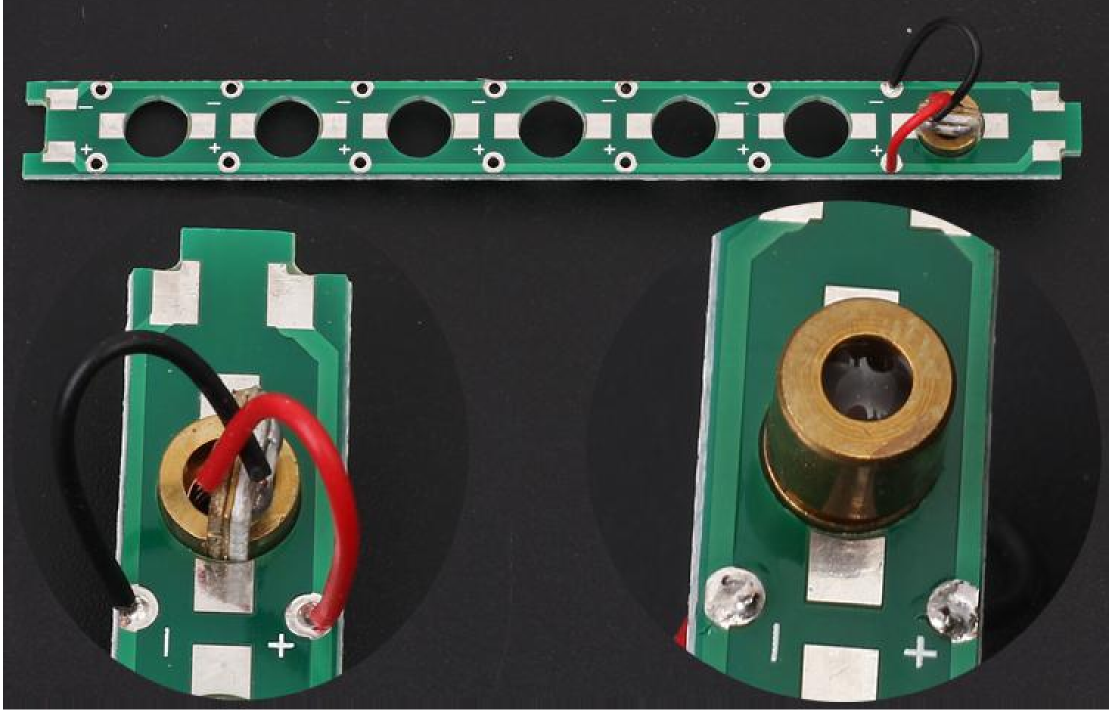

Step 6: Put a suitable length of heat shrinkable tube on the photosensitive sensor.

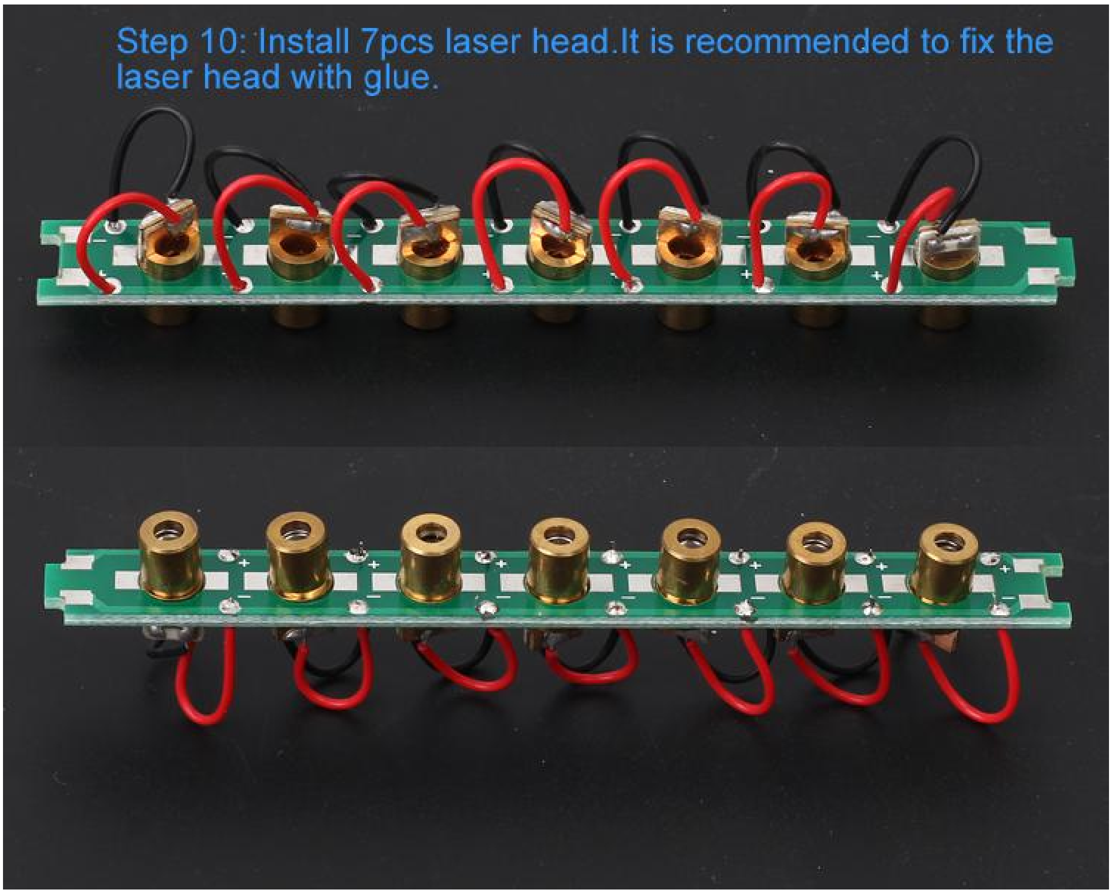

Step 7: Install 7pcs photosensitive sensor at R17-R25.
R25
R24
R23
R22
R21
R20
R19
Do
Re
Mi
Fa
Sol
La
Si
STC89C52RC
U1
DC 5V
音乐播放
喇叭
S8550
下载接口
VCC
TX
RX
GND
Y1
12M
30P
30P
高音
中音
低音
切换音调
10540A207220

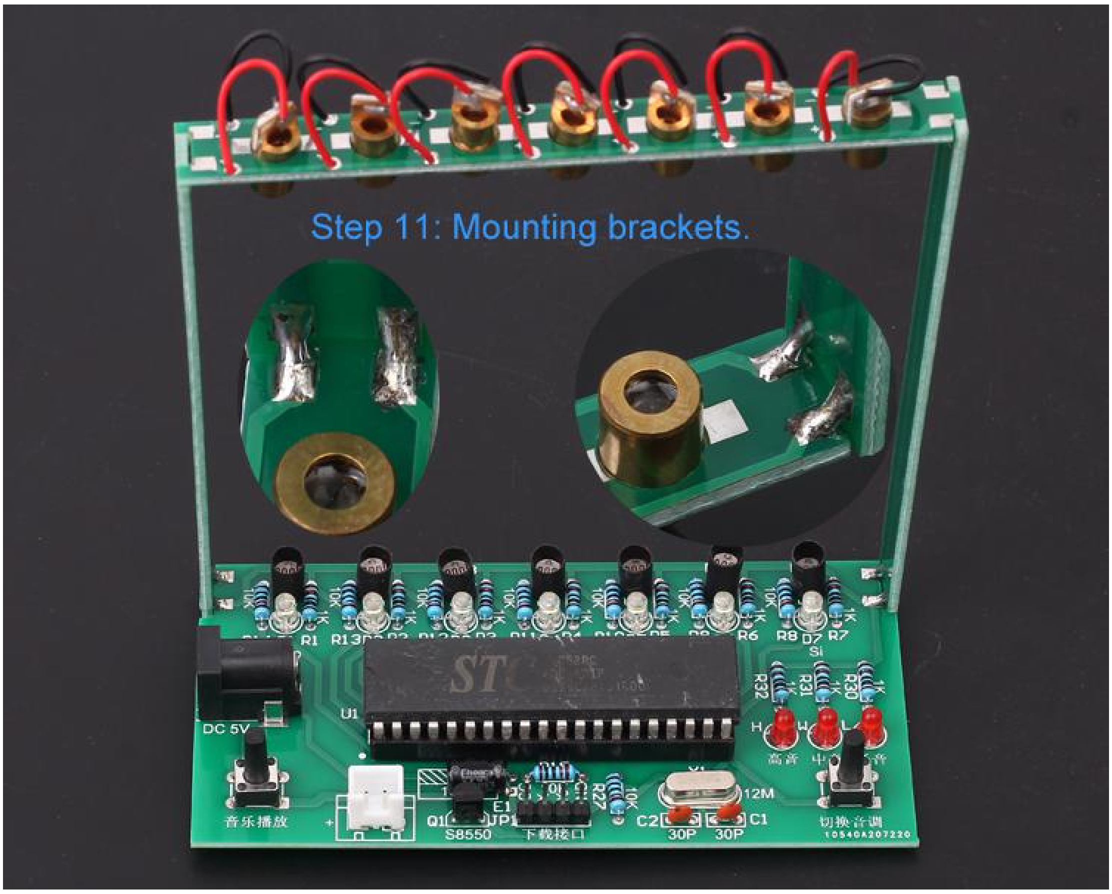
Step 8: Install 2pcs black button and 1pcs white 2P socket and 1pcs DC005 power supply socket and 1pcs 4Pin Male pin.

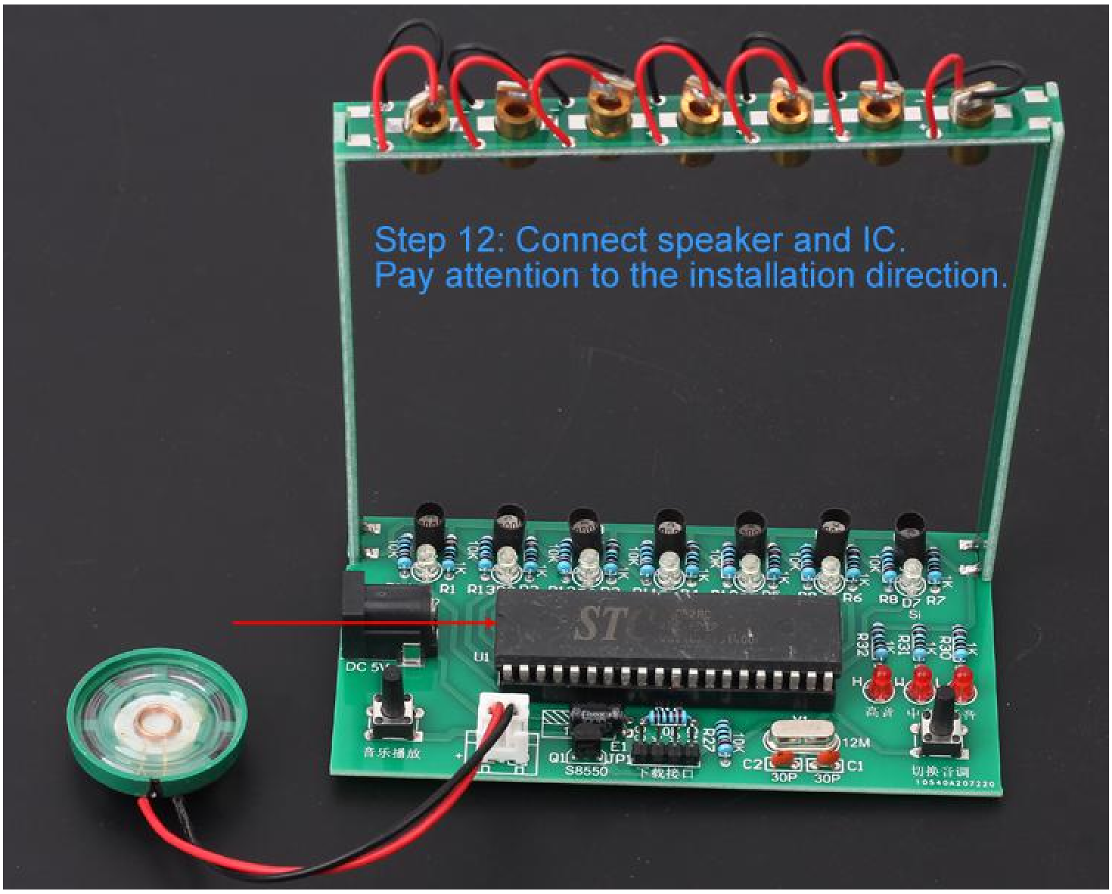


Step 9: Install laser head.Pay attention to the positive and negative poles.




Step 10: Install 7pcs laser head.It is recommended to fix the laser head with glue.


Step 11: Mounting brackets.
DC 5V
U1
Q1
S8550
12M
C2
C1
30P
30P
音乐播放
下载接口
切换音调


Step 12: Connect speaker and IC.
Pay attention to the installation direction.